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U.S. Bureau of Foreign
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Glossary of electrical
terms and instructions...

Washington

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U. S. DEPARTMENT OF COMMERCE
R. P. LAMONT, Secretary
BUREAU OF FOREIGN AND DOMESTIC COMMERCE
FREDERICK M. FEIKER, Director

GLOSSARY OF ELECTRICAL TERMS AND INSTRUCTIONS TO EXPORTERS

FOR

GUIDANCE IN PROPERLY LISTING AND CLASSIFYING.
ELECTRICAL APPARATUS AND SUPPLIES IN SHIPPERS'
EXPORT DECLARATIONS

COMPILED BY
ELECTRICAL EQUIPMENT DIVISION, BUREAU OF FOREIGN
AND DOMESTIC COMMERCE

EFFECTIVE JANUARY, 1932



UNITED STATES
GOVERNMENT PRINTING OFFICE
WASHINGTON : 1931

FOREWORD

The following articles of customs regulations of the United States are quoted for the guidance of exporters:

"ART. 1127. *Compilation and publication.*—Statistics of imports and exports are compiled and published by the Bureau of Foreign and Domestic Commerce of the Department of Commerce from data supplied by collectors of customs as hereinafter provided. Correspondence relative to statistical reports should be addressed to the above bureau at Washington, D. C.

"Inquiries relating to statistical requirements of entries and export declarations, and the procedure of coding and forwarding these documents, should be addressed to the Section of Customs Statistics at New York (Department of Commerce).

"ART. 1133. *Shipper's export declarations.*—The kinds, quantities, and values of articles exported to foreign countries or shipped to noncontiguous territory of the United States shall be compiled from the export declaration furnished by the shipper to the collector of customs at the port of exportation, prepared on the official form (Customs Form 7525) in accordance with the instructions of T. D. 38410.

"ART. 1135. *Value of exports.*—All articles exported to foreign countries or shipped to noncontiguous territory shall be valued at their actual cost or the values which they may truly bear at the time of exportation or shipment in the ports of the United States from which they are exported or shipped, including the value of cartons, cases, crates, boxes, sacks, and coverings of any kind.

"The value stated should be the actual cost or selling price, if the goods are sold. If shipped on consignment without a sale having been made, the market value at the time of exportation in the ports of the United States from which exported should be stated.

"Freight and other charges from the port of departure in the United States to the place of destination in the foreign country or noncontiguous territory to which shipped must not be included in the export value.

"ART. 1137. *Country of destination of exports.*—If the country of ultimate destination of the commodities exported is different from that for which the vessel or car clears or departs, collectors will require exporters and shippers or their agents to state in the shippers' declarations as the country of ultimate destination the country to which the commodities are sold or destined for a market.

"Special care should be taken to state the final destination of goods shipped through Canada to Europe and of goods to be transshipped in the United Kingdom, the Netherlands, Germany, and France to other countries.

"ART. 1138. *Fractions in quantities and values.*—In the expression of values in export declarations and statistical copies of entries, frac-

tions of a dollar less than 50 cents will be ignored and fractions of 50 cents or upward will be counted as one dollar. A like rule will apply to fractions of weight, measure, and tonnage.

"ART. 1140. *Description of articles exported.*—The description of merchandise in export declarations must be stated in specific and not in general terms. Such designations as 'fruits,' 'provisions,' 'groceries,' 'canned goods,' 'hardware,' 'machinery,' or any other general term must not be used, but the articles should be described in sufficient detail to permit of their classification under the proper classes of export Schedule B. On the other hand, the description in the declaration should not be in the detail of the invoice, enumerating the various kinds and grades of similar articles, which would necessitate a laborious condensation into the official export classification, but should be a recapitulation of the articles contained in the shipment, with total quantity and value of each kind of article.

"The kinds of packages, boxes, barrels, bales, etc., must be specified, with quantities in the unit stated in Schedule B, in net weight where required, exclusive of the weight of barrels, boxes, or other bulky coverings and of salt or pickle in the case of salted or pickled fish and meats."

To assist shippers of electrical merchandise in the preparation of their Shipper's Export Declarations, the Electrical Equipment Division of the Bureau of Foreign and Domestic Commerce has prepared the ensuing glossary of electrical terms, showing in what class of the schedule of exports the various articles should properly appear. The classifications for electrical merchandise are listed in the publication, *Statistical Classification of Domestic Commodities Exported from the United States (Schedule B)*, effective January 1, 1932.

In addition, the glossary contains a second set of listings by classes, showing the various numbered classifications and what material is contained in each.

The primary object of this work is to assist the American electrical industry in correctly indicating electrical materials on the export declaration forms, so that the export statistics compiled by the Department of Commerce from these declarations will reflect the true extent and kind of goods exported. The use already made of this glossary has had a marked effect in reducing the miscellaneous export classification "Electrical goods, n.e.s. (not elsewhere specified)," and if shippers will continue to follow carefully the terms and instructions shown herein, the accuracy of the figures showing the exports of their particular products will be insured.

INSTRUCTIONS TO EXPORTERS

In all cases when making out a Shipper's Export Declaration the shippers should use this glossary and *determine the proper class* under which each item of merchandise listed falls and *enter the numbers in the column headed "Class No."* This is of vital importance and will insure that our exports will be classified exactly as desired by manufacturers and in a uniform manner.

When complete machines or equipment units are so large that they are sent out in more than one shipment, the Shippers' Export

Declaration for all shipments *except the last* should show only the value of the portion of the machinery or units actually exported at the time, and the quantity column should be left blank. A statement as follows should be made on each of these declarations after the description of the shipment:

"This declaration covers assembly parts for complete apparatus for which declaration(s) was (were) made on (dates). Unit numbers will be recorded on the final declaration."

Unit numbers will be recorded on the *final* declaration and on it only. On the final declaration the number of machines or units must be put in the quantity column, and a statement as follows should be made after the description of the shipment:

"This declaration covers assembly parts for complete apparatus for which declaration(s) was (were) made on (dates). This is the declaration for the *final* shipment."

For the Department of Commerce:

MARSHALL T. JONES,
Chief, Electrical Equipment Division.

Subcommittee of Policy Committee, National Electrical Manufacturers' Association, organized to confer with the Department of Commerce on export and import statistics:

H. S. REIZENSTEIN.
H. C. MAHER.
R. J. RUSSELL.

GLOSSARY OF ELECTRICAL TERMS

ARTICLES LISTED ALPHABETICALLY

[Abbreviation n. e. s. means "not elsewhere specified"]

Terms appearing on declaration	Class No.	Unit of quantity
Accessories and parts for generators.....	7009	
Accessories and parts for motors.....	7055	
Accessories (radio), receiving set, except loud-speakers.....	7081	
Adapters, socket (radio).....	7079	
Adjusters, cord and lamp.....	7098	
Adjusters, socket street hood.....	7097	
Aerial lead-ins (radio).....	7081	
Aerials, loop.....	7081	No.
Air heaters.....	7073	No.
Airport beacons.....	7066	No.
Airport lighting fixtures except floodlights and beacons.....	7097	No.
Alarms, burglar, tank, fire.....	7089	
Alternating-current generators, under 2,000 K. V. A.....	7005	No.
Alternating-current generators, 2,000 K. V. A. and over.....	7006	No.
Alternating-current motors (see classes 7040, 7041, 7042, 7043, and 7044 under class index).....	7006	No.
Aluminum wire, cable, and fuse wire.....	6309	
Aluminum wire, steel core.....	6309	
Ampere-hour meters.....	7035	No.
Ampere meters (see classes 7036 and 7037 under class index).....	7077	No.
Amplifier units (radio).....	7078	No.
Amplifying tubes.....	7038	
Analyzers, harmonic.....	7098	
Anchor clamps, eyes, hangars, and rods.....	6435	Lb.
Annunciator wire.....	7089	
Annunciators, electric.....	7074	No.
Appliances, hotel, electric heating and cooking.....	7098	
Approaches for trolley frogs.....	5478	Lb.
Arc-lamp carbons.....	9111	No.
Arc lamps, projection.....	7010	No.
Arc-welding equipment.....	7038	
Armature testing equipment.....	7009	
Armatures and armature coils for generators.....	7055	
Armature and armature coils for motors.....	7087	
Arms, transmitter, telephone.....	7039	
Arresters, lightning (except radio).....	7049	
Automatic control equipment (electric railway and vehicle).....	7074	
Automatic current regulators for electric furnaces.....	7097	
Automatic cut-out hangars and reflectors.....	7083	No.
Automatic telephone instruments.....	7033	No.
Automatic time switches.....	7073	No.
Automobile engine heaters.....	7092	
Automobile generators and starting equipment.....	7063	No.
Automobile lamps.....	7013	No.
Automobile 6 and 12 volt storage batteries.....	7074	
Babbitt pots, electric.....	7072	No.
Bake ovens (domestic).....	7072	No.

Terms appearing on declaration	Class No.	Unit of quantity
Bake ovens, except domestic	7074	No.
Balance coils	7024	
Batteries, No. 6 dry cell	7015	No.
Batteries, dry cell, except flash-light, radio, and No. 6	7018	No.
Batteries, flash-light	7016	No. cells. ¹
Batteries, galvanic and faradic	7075	
Batteries, primary, wet-cell	7018	No. cells.
Batteries, radio, dry, B and C	7017	No. cells. ¹
Batteries, storage, 6 and 12 volt	7013	No.
Batteries, storage, farm lighting, and electric truck	7014	No. cells. ²
Batteries, storage, plates for	7099	
Battery carbons	5478	Lb.
Battery chargers under 15-ampere rating	7028	No.
Battery-charging motor-generator sets of more than 15-ampere rating	7029	No.
Battery-charging panels	7031	No.
Battery-charging sets of more than 15-ampere rating	7029	No.
Battery-charging switchboards	7031	No.
Battery clocks	9570	No.
Battery eliminators (radio)	7081	
Battery jars, rubber	2052	Lb.
Battery switches (radio)	7079	
Battery-type electric mining and industrial locomotives	7046	No.
Battery zincs	6589	Lb.
Bayonet immersion water heaters	7074	No.
Bayonet sockets	7095	No.
Beacons, airport	7066	No.
Bearings for generators	7009	
Bearings for motors	7055	
Bell-ringing transformers	7089	
Bells, electric	7089	
Binding posts (radio)	7079	
Blasting sets, electric	7092	
Bonding sleeves and rail bonds	6439	
Bowls, glass, opal and etched	5261	Lb.
Boxes, floor, fuse, service, switch, and line-junction	7094	Lb.
Boxes, telephone, distributing, protected and unprotected	7087	
Braces, cross-arm and bus-bar	7098	
Brackets, telephone	7087	
Broadcasting apparatus	7076	
Broilers	7073	No.
Brushes, carbon, for motors and generators	5476	Lb.
Buffing motors	7040	No.
Burglar alarms	7089	
Bus-bar brackets, clamps, supports, and terminals	7098	
Bushings, porcelain, entrance, floor, roof, wall	5314 } 5315 }	Lb.
Buzzers, electric	7089	
Cabinets, switch	7094	
Cable, aluminum and aluminum-steel core	6309	
Cable anchors	7098	
Cable-bare copper	6425	Lb.
Cable, insulated copper, annunciator, armored, lead-covered (except telephone)	6435	Lb.
Cable, insulated, iron or steel	6088	Lb.
Cable, telephone	6432	Lb.
Calls, carriage	7089	
Canopy switches	7095	No.
Carbon brushes for motors and generators	5476	Lb.
Carbon circuit breakers	7033	No.
Carbon electrodes for electric furnaces	5475	Lb.

¹ Number of 1½-volt cells.² Number of 2-volt cells.

Terms appearing on declaration	Class No.	Unit of quantity
Carbon-filament lamps	7065	No.
Carbon products, other (see also classes 5475-5476)	5478	Lb.
Carbons; arc-lamp, battery	5478	Lb.
Car-lighting panels	7031	
Carriage calls	7089	
Cartridge-type heaters	7074	No.
Car-type circuit breakers	7033	No.
Cases, flash-light	7060	No.
Catenary hangers	7098	
Ceiling fans	7061	No.
Ceiling suspensions	7096	
Chafing dishes	7073	No.
Changers, pole, telephone	7087	
Chargers, battery, less than 15-ampere rating	7028	No.
Charging plugs and receptacles	7098	
Charging sets, battery, of more than 15-ampere rating	7029	No.
Chimes, electric	7099	
Choke coils	7039	No.
Chucks, trolley wire	7098	
Cigar lighters	7073	No.
Circuit breakers, oil for	5038	Gal.
Circuit breakers, carbon, car type, and oil, over 10 amperes	7033	
Clamps, ground (radio)	7081	
Clamping bars and clamp pins	7098	
Clamps, ground and cable	7098	
Cleaners, vacuum, household electric	7069	No.
Cleats, porcelain	5314	Lb.
Clocks, electric	9570	No.
Cloth cutters	7050	No.
Cloth, insulating, treated and untreated	7093	Lb.
Clothes driers	7074	
Coffee percolators and urn heaters	7073	No.
Coil mountings (radio)	7079	
Coil-testing equipment	7038	
Coils, armature and field, for generators	7009	
Coils, armature and field, for motors	7055	
Coils, balance and safety	7024	No.
Coils, choke	7039	No.
Coils, induction, heat and repeating, telephone	7087	
Coils, induction, vibrating	7075	
Coils, loading and repeating (telephone)	7087	
Coils, reactance	7039	No.
Coils, tuning (radio)	7079	
Commercial lighting fixtures	7096	
Commercial refrigerators, electric, up to 1 ton	7058	No.
Common battery (C. B.) telephone instruments	7083	No.
Components (radio)	7079	
Compounds, insulating	7093	
Condensers, oil for	5038	Gal.
Condensers (radio)	7079	
Condensers, rotary and synchronous, under 2,000 K. V. A.	7005	No.
Condensers, rotary and synchronous, 2,000 K. V. A. and over	7006	No.
Condensers, static (except radio)	7099	
Condensers, steam; barometric, ejector, jet, and surface	7135	
Condensers, telephone	7087	
Conduit fittings and bushings	7094	Lb.
Conduit, interior, nonmetallic	7099	
Conduit, metal	7094	Lb.
Conduit, underground fiber	7094	Lb.
Connection boxes, metal	7098	
Connector lugs	7098	
Connectors	7098	

Terms appearing on declaration	Class No.	Unit of quantity
Constant current regulators.....	7024	No.
Control desks and panels.....	7031	
Control equipment, electric railway and vehicle.....	7049	
Control equipment, push-button, remote.....	7048	
Controllers, drum, electric railway and vehicle.....	7049	
Controllers, flat rate (meter).....	7038	
Controlling equipment, industrial motors.....	7048	
Control pedestals and switches (switchboard).....	7099	
Converters, synchronous and rotary.....	7029	No.
Cookers, fireless, electric.....	7072	No.
Cooking ranges, electric.....	7072	No.
Coolers, electric, water.....	7057	No.
Copper-clad steel wire.....	6425	Lb.
Copper terminals.....	7098	
Copper tube connectors.....	7098	
Copper wire, bare.....	6425	Lb.
Cords, receiver, switchboard, telephone.....	7087	Lb.
Corn poppers.....	7073	No.
Crooks, lighting.....	7097	
Cross-arm braces.....	7098	
Crucible furnaces, electric.....	7074	No.
Crystals (radio) and mountings.....	7079	
Curling irons.....	7073	No.
Current limiters.....	7038	
Current-limiting reactors.....	7024	No.
Current regulators, automatic, for electric furnaces.....	7074	No.
Current transformers.....	7023	No.
Cut-outs, interior.....	7095	No.
Cut-outs, primary.....	7033	
Cutters, cloth.....	7050	No.
Demand meters.....	7035	No.
Dental engines.....	7040	No.
Desk fans.....	7061	No.
Desk stands (telephone).....	7087	
Desks, control.....	7031	
Detector tubes.....	7078	No.
Detectors, ground.....	7038	
Dials (radio).....	7079	
Direct-current generators under 500 kilowatts.....	7001	No.
Direct-current generators, 500 kilowatts and over.....	7002	No.
Direct-current motors (see classes 7040, 7041, 7042, 7043, and 7044 under class index).....	7001	No.
Discharge resistors.....	7039	No.
Disconnecting switches.....	7033	
Dishwashers, domestic.....	7070	
Disk immersion water heaters.....	7073	No.
Disk stoves.....	7073	No.
Distributing boxes, telephone, protected and unprotected.....	7087	
Distribution switchboards.....	7031	
Distribution transformers (500 K. V. A and less).....	7022	No.
Domestic bake ovens and ranges, not less than \$50 valuation.....	7072	No.
Door openers, electric.....	7099	
Driers, hair.....	7070	No.
Drills, electric.....	7050	No.
Drink mixers, electric.....	7070	No.
Drum controllers and switches for industrial motors.....	7048	
Drum controllers, electric railway and vehicle.....	7049	
Dry primary batteries, No. 6.....	7015	No.
Dry primary batteries, flash-light.....	7016	No. cells. ¹
Dry primary batteries, radio B and C.....	7017	No. cells. ¹
Dry primary batteries, except flash-light, radio, and No. 6.....	7018	No.
Dryers, hair.....	7070	No.

¹ Number of 1½-volt cells.

Terms appearing on declaration	Class No.	Unit of quantity
Ears, trolley.....	7098	
Electric-furnace carbon electrodes.....	5475	Lb.
Electrolytic lightning arresters.....	7039	No.
Elevators, electric.....	7245	No.
Eliminators, battery (radio).....	7081	
Enameled copper wire.....	6435	Lb.
Engine heaters, automobile.....	7073	No.
Exercisers, electric.....	7062	No.
Exhaust fans up to 16 inches diameter.....	7061	No.
Expulsion-type fuse blocks.....	7095	No.
Fans, electric, ceiling, desk, gyrating, exhaust, up to 16 inches diameter.....	7061	No.
Faradic batteries.....	7075	
Farm lighting outfits.....	7011	No.
Faucet-type water heaters.....	7073	No.
Fault localizers.....	7038	
Feed-wire insulators, porcelain.....	5314	} Lb.
Feeder clamps, ears, and suspensions.....	5315	
Feeder panels.....	7098	
Feeder switches.....	7031	No.
Feeder-tap insulators and supports, porcelain.....	7033	
Feeder voltage regulators.....	5314	} Lb.
Fiber conduit.....	5315	
Fiber, vulcanized, sheets, strips, rods, and tubes.....	7024	No.
Filaments (tungsten).....	7099	
Fire alarms.....	4795	Lb.
Fireless cookers, electric.....	6233	Lb.
Flashers, sign.....	7089	
Flash-light batteries.....	7072	No.
Flash-light cases, not including incandescent bulbs and batteries (for which see classes 7063, 7065, and 7016).....	7099	
Flatirons, electric.....	7016	No. cells. ¹
Flat-rate controllers.....	7060	No.
Flexible approaches.....	7071	No.
Float switches.....	7038	
Floodlights.....	7098	
Floor boxes.....	7048	
Floor bushings and floor tubes, porcelain.....	7067	No.
Floor polishers, sanders, scrubbers, and surfacers (see classes 7040, 7041, and 7042 under class index).....	7094	
Foot candle meters.....	5314	} Lb.
Foot warmers, electric.....	5315	
Fractional horsepower motors (see classes 7040 and 7041 under class index).....	7074	No.
Frequency changers.....	7029	No.
Frequency meters (see classes 7036 and 7037 under class index).....	7029	No.
Friction tape.....	2084	Lb.
Frogs, trolley.....	7098	
Frying kettles.....	7073	No.
Furnace, electric carbon electrodes.....	5475	Lb.
Furnaces, muffle and tube, electric.....	7074	No.
Fuse blocks, inclosed and expulsion types.....	7095	No.
Fuse holders.....	7095	No.
Fuse panels.....	7031	No.
Fuse wire, aluminum.....	6809	
Fuses, inclosed battery supply, cartridge, link, plug, and telephone.....	7034	No.

¹ Number of 1½-volt cells.

Terms appearing on declaration	Class No.	Unit of quantity
Galvanic batteries.....	7075	Lb.
Galvanized wire.....	8082	
Generator, armatures, armature coils, bearings, field coils; renewal, repair, and spare parts.....	7009	
Generator panels.....	7031	No.
Generators, alternating current, under 2,000 K. V. A.....	7005	
Generators, alternating current, 2,000 K. V. A. and over.....	7006	
Generators, auto.....	7092	No.
Generators, direct-current, under 500 kilowatts.....	7001	
Generators, direct-current, 500 kilowatts and over.....	7002	
Generators, hand, telephone.....	7087	No.
Generators, railway-coach lighting.....	7001	
Generators, telephone ringing.....	7087	
Glass globes and shades for lighting fixtures.....	5261	Lb.
Glass insulators.....	5292	
Globes, glass ball.....	5261	
Glow meters.....	7038	No.
Glue pots, electric.....	7074	
Goosenecks.....	7087	
Graphic meters.....	7037	No.
Grid leaks (radio).....	7079	
Griddles.....	7073	
Grills.....	7073	No.
Grinders, electric.....	7050	
Grinding motors.....	7042	
Grinding and slicing machines, power driven, meat, and other.....	7710	No.
Ground clamps (radio).....	7081	
Ground detectors.....	7038	
Gyrating fans.....	7061	No.
Hair clippers, electric.....	7099	
Hair dryers, electric.....	7070	
Half-strain ears.....	7098	No.
Hammers, electric.....	7050	
Hanger clamps.....	7098	
Hangers, cable.....	7088	Lb.
Hard-rubber sheets.....	2052	
Harmonic analyzers.....	7038	
Headlight turbine sets, locomotive.....	7007	No.
Headsets (radio).....	7081	
Health lamps.....	7075	
Health motors.....	7062	No.
Heat coils, telephone.....	7087	
Heaters, air, automobile-engine, coffee-urn, disk-immersion, reflector, water.....	7073	
Heaters, water, cartridge, immersion, metal, pattern plate, oven, space, steel-clad.....	7074	No.
Home lighting fixtures.....	7096	
Home lighting plants.....	7011	
Hoods, socket, street.....	7087	No.
Horns, electric, not automobile (see class 7924).....	7089	
Hospital signal equipment, electric.....	7089	
Hotel ranges, toasters, and other appliances.....	7074	No.
Hot plates, electric.....	7073	
Hot tables, electric.....	7074	
Household irons.....	7071	No.
Household refrigerators, electric.....	7057	
Household refrigerators, parts.....	7059	
Ice-cream cabinets, electric.....	7088	No.
Ignition equipment, automobile.....	7092	
Immersion water heaters, bayonet.....	7074	
Impulse gaps.....	7039	No.

Terms appearing on declaration	Class No.	Unit of quantity
Incandescent metal filament lamps, automobile, flash-light, and Christmas-tree.....	7063	No.
Incandescent metal filament lamps, other.....	7064	No.
Indicating instruments, electrical ampere, volt, frequency, power-factor, and watt.....	7036	No.
Indicators, lamp.....	7031	No.
Individual lighting sets.....	7011	No.
Induction coils, telephone.....	7087	No.
Induction coils, vibrating.....	7075	
Induction-feeder voltage regulators.....	7024	
Industrial electric furnaces and ovens, including automatic current regulators.....	7074	No.
Industrial lighting fixtures.....	7096	No.
Industrial locomotives, electric.....	7046	
Instruments, telegraph.....	7082	
Instrument transformers.....	7023	No.
Insulated iron or steel wire and cable.....	6088	Lb.
Insulating material, other.....	7093	Lb.
Insulating tapes, rubber and friction.....	2084	Lb.
Insulating oils.....	5038	Gal.
Insulation, mica.....	5512	Lb.
Insulation-testing equipment.....	7038	No.
Insulator pins.....	7098	
Insulators, compositions, strain (composition), strain (wooden).....	7098	
Insulators, glass.....	5292	Lb.
Insulators, porcelain; feed wire, feeder-tap supports, bus type, strain, etc.....	5314	Lb.
Iron-clad switchboards.....	5315	No.
Iron wire, plain.....	7031	Lb.
Ironing machines, electrically driven.....	6081	No.
Irons, curling, waffle.....	7070	No.
Irons, household, laundry, tailors' and travelers'.....	7073	No.
Jacks (radio).....	7071	No.
Jacks, telephone.....	7079	Lb.
Jars, rubber, battery.....	7087	
Junction boxes.....	2052	
Kilovolt-ampere-hour meters.....	7094	Lb.
Kits (radio).....	7035	No.
Knife switches, 10 amperes and less.....	7079	No.
Knife switches, over 10 amperes.....	7095	
Knockdown sets (radio).....	7033	
Lamps, carbon filament and others, excluding incandescent metal filament.....	7079	No.
Lamp brackets.....	7065	
Lamp caps, telephone.....	7097	
Lamp indicators.....	7087	Lb.
Lamp shades, glass.....	7031	
Lamp shades, metal.....	5261	
Lamp sockets.....	7096	No.
Lamps, health or sun-ray.....	7095	
Lamps, metal filament, auto, flash-light, and Christmas tree.....	7075	
Lamps, other metal filament.....	7063	No.
Lamps, portable and table.....	7064	No.
Laundry irons.....	7096	No.
Letters, sign.....	7071	
Lifting magnets.....	7099	
Lighting equipment for automobiles, not including bulbs and lamps.....	7099	Lb.
Lighting fixtures, globes and shades for.....	7092	
Lighting fixtures, interior, commercial, home, and industrial.....	5261	
Lighting fixtures, street (exterior).....	7096	Lb.
	7097	

Terms appearing on declaration	Class No.	Unit of quantity
Lighting panels	7031	No.
Lightning arresters	7039	Gal.
Lightning-arrester oils	5038	
Lightning arresters (radio)	7081	
Line junction boxes	7094	Lb.
Line material, n. e. t.	7098	
Line section switches	7033	
Loading coils, telephone	7087	
Locomotives, electric mining and industrial	7046	No.
Locomotives, electric railway	7045	No.
Locomotive headlight turbine sets	7007	No.
Loop aeriels	7081	No.
Loud speakers and units (radio)	7080	No.
Luminous radiators	7073	No.
Magnet chargers	7099	
Magnet wire, copper	6435	Lb.
Magneto telephone instruments	7083	No.
Magnetos, ignition	7092	
Magnetos, telephone	7087	
Magnets, lifting	7099	
Magnets permanent	7073	No.
Mantel luminous radiators	7070	No.
Massage vibrators, electric	7113	No.
Mechanical drive turbines	7029	No.
Mercury rectifiers of more than 15-ampere rating	7087	
Message register meters	7094	Lb.
Metal conduit	7063	No.
Metal filament, incandescent lamps	7064	Lb.
Metal molding, electrical	7074	No.
Metal pattern plate heaters		
Metal poles (see complete Schedule B)	7031	
Meter houses	7031	
Metering panel boards	7035	No.
Meters, ampere-hour, demand, and watt-hour	7087	
Meters, telephone, message, register		
Meters, testing (see classes 7036, 7037, and 7038 under class index)	7038	
Meters, Wheatstone Bridge	5512	Lb.
Mica insulation	7076	
Microphones	7046	No.
Mining locomotives, electric	7070	No.
Mixers, drink, electric	7078	No.
Modulating tubes	7094	Lb.
Molding, metal, electrical	9009	
Motion-picture sound equipment (including records)	7094	Lb.
Motor connection boxes	7048	
Motor controllers, except railway and vehicle	7070	No.
Motor-driven devices, except tools	7029	No.
Motor generators	7028	No.
Motor-generator battery charging-sets of less than 15-ampere rating		
Motor starters, except railway and vehicle	7048	
Motor trucks, electric, station and warehouse	7047	No.
Motors; armatures, armature coils, bearings, field coils; renewal, repair, and spare parts	7055	
Motors, auto starting	7092	No.
Motors, health, exerciser	7062	No.
Motors (see classes 7040, 7041, 7042, 7043, and 7044 under class index)		
Mountings, coil (radio)	7079	
Mouthpieces, telephone	7087	
Moving-coil regulators	7024	No.

Terms appearing on declaration	Class No.	Unit of quantity
Muffle furnaces, electric	7074	No.
Multiple street hood bodies	7097	
Multiple unit controls	7049	
Neon signs	7099	
Nickel-chrome electric resistance wire	6630	Lb.
Nofus lighting panels	7081	
Nonmetallic conduit	7099	
Oil, circuit breaker, condenser, insulating, lightning arrester, and transformer	5038	Gal.
Oil circuit breakers	7033	
Oil drying and purifying outfits	7024	No.
Oil-testing cups	7099	
Oscillographs	7038	
Outlet boxes	7094	Lb.
Outlets	7095	No.
Ovens, domestic, electric	7072	No.
Oven heaters, industrial	7074	No.
Ovens, not domestic	7074	No.
Pads, warming	7073	No.
Paint-spraying equipment	7720	
Paints, insulating	7093	No.
Panel boards	7081	
Panels, arc welding, battery charging, car lighting, control, feeder, fuse, generator, switchboard, voltage regulator	7031	
Panels (radio)	7079	
Paper, insulating, treated and untreated	7093	Lb.
Pens, seorching	7099	
Perculators, coffee	7073	No.
Permanent magnets	9816	
Phenolic synthetic resins	7077	No.
Phonograph-radio combinations	7099	
Photo electric cells	7099	
Photoflash lamps	7081	
Pickups, electric (radio)	7098	
Pins, insulator	7050	No.
Planers, electric	7011	No.
Plants, portable electric and home lighting	7099	
Plants, wind-driven electric	7074	No.
Plate heaters, metal pattern	7095	No.
Plugs, attachment	7081	
Plugs (radio)	7087	
Plugs, telephone	7087	
Pole changers, telephone		
Poles, metal (see complete Schedule B)	4034	No.
Poles, wood; light, electric, telegraph, trolley	5314	Lb.
Porcelain, electrical for less than 6,600 volts	5315	Lb.
Porcelain, electrical for 6,600 volts and over	7081	No.
Portable electric plants	7050	No.
Portable electric tools	7096	
Portable lamps	7038	
Portable testing outfits	7079	
Posts, binding (radio)	7097	
Posts, electric lighting	7038	
Potentiometers, not radio	7079	
Potentiometers (radio)	7099	
Pot heads, power cable	7087	
Pot heads, telephone cable	7074	No.
Pots, babbitt and solder, electric		No.
Power factor meters (see classes 7036 and 7037 under class index)	7021	No.
Power transformers, 500 K. V. A. and over	7018	No.
Primary batteries except flash-light, radio, and No. 6		

Terms appearing on declaration	Class No.	Unit of quantity
Projectors, except motion-picture machines (for which see classes 9007 and 9008)	7067	No.
Protectors and mountings, telephone	7087	
Push-button control equipment	7048	
Push-button switches	7095	No.
Push buttons	7089	
Radiators, luminous	7073	No.
Radio A storage batteries	7013	No.
Radio apparatus, parts, and accessories (see classes 7076, 7077, 7078, 7079, 7080, and 7081 under class index)		
Radio dry batteries (B and C)	7017	No. cells, ¹
Radio-phonograph combinations	7077	No.
Rail bonds	6439	
Railway cars, electric	7961	No.
Railway coach lighting generators and sets	7001	No.
Railway controllers	7049	
Railway locomotives, electric	7045	No.
Railway motors	7044	No.
Railway signals and attachments, electrical	7970	
Ranges, domestic	7072	No.
Reactance coil regulators	7024	No.
Reactance coils	7039	No.
Reactivators, radio tube	7081	
Reactors	7039	No.
Reactors, current limiting	7024	No.
Reamers, electric	7050	No.
Receiver cords, telephone	7087	
Receivers, telephone	7087	
Receiving-set accessories, except loudspeakers (radio)	7081	
Receiving-set components (radio)	7079	
Receiving sets (complete) (radio)	7077	No.
Receptacles	7095	No.
Recording instruments, electrical, ampere, volt, frequency, power factor, and watt	7037	No.
Rectifier bulbs of more than 15-ampere rating	7029	No.
Rectifier, mercury of more than 15-ampere rating	7029	No.
Rectifiers of less than 15-ampere rating	7028	No.
Rectifying tubes (radio)	7078	No.
Reducers, socket	7095	No.
Reflector heaters	7073	No.
Reflectors, interior lighting	7096	
Refrigerators, electric, commercial, up to 1 ton capacity	7058	No.
Refrigerators, household electric	7057	No.
Refrigerators, except electric	9845	No.
Refrigerators, electric, parts	7059	
Regulating transformers	7024	No.
Regulators, voltage, panels	7031	No.
Regulators, automatic current for electric furnaces	7074	No.
Regulators, constant current, feeder voltage, induction feeder voltage, moving coil, reactance coil	7024	No.
Regulators, electric temperature	7038	
Remote-control equipment for industrial motors	7048	
Renewal parts except for generators, motors, and telephones	7099	
Renewal parts for generators	7099	
Renewal parts for motors	7095	
Repair parts, except for generators, motors, and telephones	7099	
Repair parts for generators	7099	
Repair parts for motors	7055	
Repeaters, telegraph	7082	
Repeaters, telephone	7087	
Repeating coils, telephone	7087	

¹ Number of 1½-volt cells.

Terms appearing on declaration	Class No.	Unit of quantity
Resistance units (radio)	7079	
Resistance wire, nickel chrome	6630	Lb.
Resistors (industrial motors)	7048	
Rheostats (industrial motors)	7048	
Rheostats (radio)	7079	
Ringers, telephone	7087	
Riveters, electric	7050	No.
Rosettes	7095	No.
Rotary condensers, under 2,000 K. V. A.	7005	No.
Rotary condensers, 2,000 K. V. A. and over	7006	No.
Rotary converters	7029	No.
Rubber, battery jars, hard sheets, hard washers, etc	2052	Lb.
Rubber tape, high-voltage	2084	Lb.
Rubberized tape, insulating	2084	Lb.
Safety coils	7024	No.
Safety switches	7033	
Saws, electric	7050	No.
Scorching pens	7099	
Screw drivers, electric	7050	No.
Searchlights (not flash lights)	7066	No.
Self-contained lighting outfits	7011	No.
Sending sets (radio)	7076	
Series street hood bodies	7097	
Service boxes	7004	Lb.
Set accessories (radio), except loud-speakers	7081	
Set components (radio)	7079	
Sets (radio), complete	7077	No.
Sewing-machine motors	7040	No.
Shades, glass	5261	Lb.
Shades, metal	7096	
Short-wave units (radio)	7077	No.
Signs, electric; sign flashers and letters	7099	
Signals, factory, office, and hospital	7089	
Signal, railway, electric	7970	
Sleeves, bonding	6439	
Sleeving, fabric and paper	7093	Lb.
Snap switches	7095	No.
Socket adapters (radio)	7079	
Socket adjuster transformers	7024	No.
Sockets and socket reducers	7095	No.
Sockets (radio)	7079	
Solder pots, electric	7074	No.
Solderless connectors	7098	
Solenoids	7099	
Space heaters	7074	No.
Spare parts, except for generators, motors, and telephones	7099	
Spare parts for generators	7099	
Spare parts for motors	7055	
Spark plugs	7921	No.
Speed indicators, electric	7038	
Splicers	7098	
Splicing compound	7093	Lb.
Splicing ears and sleeves	7098	
Stands, desk (telephone)	7087	
Starting equipment, electric railway and vehicle	7049	
Starting equipment for automobiles	7092	
Starting equipment, industrial motors	7048	
Static condenser	7099	
Station electric motor trucks	7047	No.
Steam-turbine generator sets, complete	7007	No.
Steam turbines	7113	No.
Steel-clad heaters	7074	No.

Terms appearing on declaration	Class No.	Unit of quantity
Steel wire, copper clad	6425	Lb.
Steel wire, plain	6081	Lb.
Storage batteries, 6 and 12 volt	7013	No.
Storage batteries, other than 6 and 12 volt	7014	No. cells. ¹
Storage-battery plates	7099	
Strain ears	7098	
Street hoods	7097	
Street-lighting fixtures	7097	
Sun-ray or health lamps	7075	
Switchboards (except telephone)	7031	
Switchboards, battery charging, iron clad, panels truck type, theater, and preset	7031	
Switchboard cords, telephone	7087	
Switchboard panels (except telephone)	7031	
Switchboards, telephone; magneto, C. B. manual, C. B. mechanical, C. B. semimechanical, P. B. X.-C. B. manual, P. B. X.-C. B. mechanical, and testing	7086	No.
Switch boxes and cabinets	7094	Lb.
Switch houses	7031	
Switches, battery (radio)	7079	
Switches, canopy, push button, knife 10 amperes and less, snap, toggle, and tumbler	7095	No.
Switches, disconnecting, feeder, knife over 10 amperes, line section, and time	7033	
Switches, float	7048	
Synchronous clocks	9570	No.
Synchronous condensers, under 2,000 K. V. A.	7005	No.
Synchronous condensers, 2,000 K. V. A. and over	7006	No.
Synchronous converters	7029	No.
Synchronous motors (see classes 7042 and 7043 under class index)		
Synchroscopes	7038	
Synthetic phenolic resin products	9816	
Table lamps	7096	
Tables, hot, electric	7074	No.
Tailors' irons	7071	No.
Talking machine-radio combinations	7077	No.
Tampers, electric	7050	No.
Tank alarms	7089	
Tape, friction, high-voltage rubber, rubberized insulating	2084	Lb.
Teakettles, electric	7073	No.
Telegraph apparatus and equipment, except radio	7082	
Telegraph poles, metal (see complete Schedule B)		
Telegraph poles, wood	4034	No.
Telegraph transmitting (radio and wireless) apparatus	7076	
Telephone brackets	7087	
Telephone cable	6432	Lb.
Telephone equipment, except instruments and switchboards	7087	
Telephone instruments, automatic, C. B. and magneto	7083	No.
Telephone sending (radio) apparatus	7076	
Telephone switchboards	7086	No.
Telephone wire, iron, insulated	6088	Lb.
Television accessories	7081	
Television components	7079	
Temperature regulators, electric	7038	
Terminals (radio)	7079	
Testing apparatus (see classes 7036, 7037, and 7038 under class index)		
Testing outfits, portable	7038	
Therapeutic apparatus	7075	

¹ Number of 2-volt cells.

Terms appearing on declaration	Class No.	Unit of quantity
Thermostats	7038	
Third-rail electric mining and industrial locomotives	7046	No.
Time switches	7033	No.
Toaster stoves	7073	No.
Toasters, domestic	7073	No.
Toasters, hotel	7074	No.
Toggle switches	7095	No.
Tools, portable, electric (see also classes 7040, 7041, and 7042 under class index)	7050	No.
Toys, electric	9419	
Traffic signals (electric)	7097	
Train-line junction boxes	7094	Lb.
Train-line receptacles	7098	
Transformer oils	5038	Gal.
Transformers, bell ringing	7089	
Transformers, distribution (500 K. V. A. and less)	7022	No.
Transformers, instrument	7023	No.
Transformers, power, over 500 K. V. A.	7021	No.
Transformers (radio)	7079	
Transformers, regulating and socket adjuster	7024	No.
Transmitter arms, telephone	7087	
Transmitting sets (radio) and parts	7076	
Transmitting tubes (radio)	7076	
Travelers' irons	7071	No.
Treated cloth and paper	7093	Lb.
Trickle chargers	7028	No.
Trip coils	7099	
Trolley brackets, ears, frogs, protecting armor, wire chucks, wire splicers	7098	
Trolley poles, metal (see complete Schedule B)		
Trolley poles, wood	4034	No.
Trolley-type electric mining and industrial locomotives	7046	No.
Trolley wire, copper	6425	Lb.
Trucks, electric motor, station and warehouse	7047	No.
Truck-type switchboards	7031	
Tube furnaces, electric	7074	No.
Tube, reactivators, radio	7081	
Tubes, amplifying, detector, modulating, and rectifying	7078	No.
Tubes for X-ray machines	7075	
Tubes, insulating, other than porcelain	7093	Lb.
Tubes, porcelain, floor	5314 } 5315 }	Lb.
Tumbler switches	7095	No.
Tungsten wire	6233	Lb.
Tuning coils (radio)	7079	
Universal motors	7040 } 7041 }	No.
Urns, coffee, electric	7073	No.
Utility motors (see classes 7040, 7041, and 7042 under class index)		
Vacuum cleaners, electric, household	7069	No.
Variocouplers and variometers (radio)	7079	
Varnishes, insulating	7093	Lb.
Vibrators, massage, electric	7070	No.
Voltmeters (see classes 7036 and 7037 under class index)		
Voltage regulator, generator panels	7031	
Voltage regulator panels	7031	
Voltage regulators, feeder and induction feeder	7024	No.
Voltage transformers	7023	No.
Vulcanized fiber, sheets, strips, rods, and tubes	4795	Lb.
Vulcanizers, electric	7074	No.
Waffle irons	7073	No.

Terms appearing on declaration	Class No.	Unit of quantity
Warehouse electric motor trucks.....	7047	No.
Warning pads.....	7073	No.
Washers, hard rubber.....	2052	Lb.
Washing machines, electric, household.....	7068	No.
Water coolers, electric.....	7057	No.
Water heaters, domestic.....	7073	No.
Water heaters, bayonet immersion.....	7074	No.
Watt-hour meters.....	7035	No.
Wattmeters (see classes 7036 and 7037 under class index).....	7081	No.
Wave traps (radio).....	7081	No.
Weatherproof wire.....	6431	Lb.
Welding equipment.....	7010	No.
Wet-cell primary batteries.....	7018	No.
Wheatstone bridges.....	7038	No.
Wind-driven electric plants.....	7089	No.
Wire, aluminum; aluminum, steel core.....	6309	No.
Wire, bare, copper.....	6425	Lb.
Wire, copper; annunciator, armored asbestos, enameled magnet, parkway, varnished cambric.....	6435	Lb.
Wire, copper-clad-steel.....	6425	Lb.
Wire, copper, trolley.....	6425	Lb.
Wire, fixture.....	6430	Lb.
Wire, galvanized.....	6082	Lb.
Wire, insulated iron or steel.....	6088	Lb.
Wire, nickel-chrome, resistance.....	6030	Lb.
Wire, plain iron or steel.....	6081	Lb.
Wire, rubber-covered and fixture.....	6430	Lb.
Wire, telephone, iron insulated.....	6088	Lb.
Wire, tungsten.....	6233	Lb.
Wire, weatherproof and slow-burning (copper).....	6431	Lb.
Wireless telegraph transmitting apparatus.....	7076	No.
Wiring supplies, n. e. s. (see classes 7094, 7095, and 6430).....	7098	No.
Wood, poles.....	4034	No.
Woodworking tools, electric.....	7050	No.
X-ray machines and tubes.....	7075	No.
Zincs, battery.....	6589	Lb.

ARTICLES LISTED BY CLASSES¹

[Abbreviation n. e. s. means "not elsewhere specified"]

RUBBER AND MANUFACTURES	CARBON AND GRAPHITE
Class No.	
2052. ELECTRICAL HARD-RUBBER GOODS:	5475. CARBON ELECTRODES FOR ELECTRIC FURNACES:
Battery jars, rubber.	Electric-furnace electrodes.
Hard-rubber sheets.	
Hard rubber, washers, etc.	5476. CARBON BRUSHES:
	Brushes for generators.
	Brushes for motors.
2084. RUBBER AND FRICTION TAPE:	5478. OTHER CARBON PRODUCTS:
Friction tape.	Arc lamp carbons.
High-voltage rubber tape.	Battery carbons.
Rubberized insulating tape.	
WOOD AND MANUFACTURES	5512. MICA AND MANUFACTURES:
4084. TELEGRAPH, TROLLEY, AND ELECTRIC LIGHT POLES:	Mica insulation.
Wood poles (only). For metal poles see complete Schedule B.	
4290. OTHER WOOD MANUFACTURES:	WIRE AND MANUFACTURES (IRON AND STEEL)
Storage battery separators.	6081. PLAIN IRON OR STEEL WIRE.
	6082. GALVANIZED WIRE.
4795. VULCANIZED FIBER SHEETS, STRIPS, RODS, AND TUBES.	6088. INSULATED IRON OF STEEL WIRE AND CABLE:
	Cable, insulated, iron or steel.
	Telephone wire, iron, insulated.
PETROLEUM AND PRODUCTS	FERRO-ALLOYS
5038. INSULATING OR TRANSFORMER OILS:	6233. FERROTUNGSTEN, TUNGSTEN METAL, AND WIRE:
Circuit-breaker oil.	Filaments.
Condenser oil.	Tungsten wire.
Insulating oils.	
Lightning-arrester oil.	NONFERROUS METALS: ALUMINUM
Transformer oil.	
GLASS AND GLASS PRODUCTS	6309. OTHER ALUMINUM MANUFACTURES:
5261. GLOBES AND SHADES FOR LIGHTING FIXTURES:	Aluminum fuse wire.
Bowls, opal and etched.	Cable, aluminum.
Globes, ball.	Wire and cable, aluminum.
Lamp shades, glass.	Wire and cable, aluminum, steel core.
Shades, glass.	NONFERROUS METALS: COPPER
5292. ELECTRICAL GLASS INSULATORS:	6425. COPPER WIRE (BARE):
Glass insulators.	Cable, bare copper.
	Copper trolley wire.
	Copper-clad steel wire.
	Wire, copper.
CLAY AND CLAY PRODUCTS	6430. RUBBER-COVERED WIRE:
5314. ELECTRICAL PORCELAIN FOR LESS THAN 6,500 VOLTS:	Fixture wire.
Busings, entrance, floor, roof, and wall.	6431. WEATHERPROOF WIRE:
Cleats.	Wire, weatherproof.
Feed-wire insulators.	Wire, slow-burning.
Feeder-tap insulators and supports.	
Floor tubes.	6432. TELEPHONE CABLE, INSULATED.
Insulators, bus type and knob.	
Insulators, strain, porcelain.	6435. OTHER INSULATED COPPER WIRE:
Tubes, porcelain.	Wire, annunciator.
See also class 7095.	Wire, asbestos insulated.
5315. ELECTRICAL PORCELAIN FOR 6,500 VOLTS AND OVER:	Wire, enameled.
Busings, entrance, floor, roof, and wall.	Wire, magnet.
Feed-wire insulators.	Cable, parkway.
Feeder-tap insulators and supports.	Cable, varnished cambric insulated.
Floor busings.	Cable armored.
Floor tubes.	6439. OTHER COPPER MANUFACTURES:
Insulators, bus type.	Bonding sleeves.
Insulators, strain, porcelain.	Bonds.
Tubes, porcelain.	Rail bonds.

¹ The omission of an article from this list does not mean that it is classified elsewhere. Only major items not clearly included in the title are mentioned. Miscellaneous goods of the same type should be assigned to the same class.

NONFERROUS METALS: ZINC

6589. OTHER ZINC MANUFACTURES:
Battery zincs.

6630. NICKEL-CHROME ELECTRIC RESISTANCE WIRE
ELECTRICAL MACHINERY AND APPARATUS

7001. GENERATORS, DIRECT CURRENT, UNDER 500 KILOWATTS:
Direct-current generators, under 500 kilowatts.
Generators, railway-coach lighting.
Railway-coach lighting sets.

7002. GENERATORS, DIRECT CURRENT, 500 KILOWATTS AND OVER.

7005. GENERATORS, ALTERNATING CURRENT, UNDER 2,000 KILOWATT AMPERES:
Alternating-current generators, under 2,000 K. V. A.
Rotary condensers, under 2,000 K. V. A.
Synchronous condensers, under 2,000 K. V. A.

7006. GENERATORS, ALTERNATING CURRENT, 2,000 KILOWATT AMPERES AND OVER:
Alternating-current generators, 2,000 K. V. A. and over.
Rotary condensers, 2,000 K. V. A. and over.
Synchronous condensers, 2,000 K. V. A. and over.

7007. STEAM-TURBINE GENERATOR SETS:
Complete steam-turbine generator sets.
Locomotive headlight turbine sets.

7009. ACCESSORIES AND PARTS FOR GENERATORS:
Armatures and coils for generators.
Bearings for generators.
Renewal, repair, and spare parts for generators.

7010. ARC-WELDING SETS:

7011. SELF-CONTAINED LIGHTING OUTFITS:
Farm lighting outfits.
Individual lighting sets.
Plants, portable electric.
Plants, home lighting.
For wind-driven generators see class 7099.

7013. 6 AND 12 VOLT STORAGE BATTERIES:
6-volt automobile batteries.
12-volt automobile batteries.
Radio A batteries (storage).

7014. OTHER STORAGE BATTERIES:
Farm lighting batteries.
Electric-truck batteries.

7015. No. 6 DRY-CELL BATTERIES.

7016. FLASH-LIGHT BATTERIES.

7017. RADIO B AND C BATTERIES (DRY):
A 45-volt. B battery should be reported as 30 cells, a 22½ as 15 cells, and a 4½-volt C battery as 3 cells.

7018. OTHER DRY AND WET CELL PRIMARY BATTERIES:
Wet-cell batteries.

7021. POWER TRANSFORMERS, OVER 500 KILOWATT AMPERES.
(See also class 5093.)

7022. DISTRIBUTION TRANSFORMERS, 500 KILOWATT AMPERES AND LESS.

7023. INSTRUMENT TRANSFORMERS:
Current transformers.
Instrument transformers.
Voltage transformers.

7024. OTHER TRANSFORMERS:

Balance coils.
Constant-current regulators.
Current-limiting reactors.
Feeder voltage regulators.
Induction feeder voltage regulators.
Moving coil regulators.
Oil drying and purifying outfits.
Reactance coil regulators.
Regulating transformers.
Safety coils.
Socket adjuster transformers.

7025. COMPLETE BATTERY CHARGERS UNDER 15 AMPERES:
Battery chargers and sets of less than 15 amperes.
Motor-generator charging sets of less than 15-ampere rating.
Rectifiers.
Trickle chargers.

7029. DOUBLE-CURRENT AND MOTOR GENERATORS DYNAMOTORS, SYNCHRONOUS AND OTHER CONVERTERS:
Battery-charging sets of more than 15 amperes.
Battery-charging motor-generating sets of more than 15-ampere rating.
Frequency changers.
Mercury rectifiers.
Motor generators.
Rotary converters.
Synchronous converters.

7031. SWITCHBOARD PANELS, EXCEPT TELEPHONE

Arc-welding panels.
Battery-charging panels.
Battery-charging switchboards.
Car-lighting panels.
Control desks.
Control panels.
Distribution switchboards.
Feeder panels.
Fuse panels.
Generator panels.
Iron-clad switchboards.
Lamp indicators.
Lighting panels.
Meter houses.
Metering panel boards.
Nofuz lighting panels.
Panel switchboards.
Preset switchboards.
Regulator panels, voltage.
Transfer switchboards.
Truck-type switchboards.
Switchboards, except telephone.
Switch houses.
Voltage regulators, generator.

7033. POWER SWITCHES AND CIRCUIT BREAKERS OVER 10 AMPERES:

Automatic time switches.
Carbon circuit breakers.
Car-type circuit breakers.
Circuit breakers.
Cut-outs, primary.
Disconnecting switches.
Feeder switches.
Knife switches over 10 amperes.
Line-section switches.
Oil circuit breakers.
Safety switches.
Time switches.

7034. FUSES:

Expulsion-type fuses.
Fuses, battery supply.
Fuses, cartridge.
Fuses, link.
Fuses, plug.
Fuses, telephone.
Inclosed fuses.

7035. WATT-HOUR AND OTHER MEASURING METERS:

Amperes-hour meters.
Demand meters.
Kilovolt-ampere-hour meters.
Watt-hour meters.

7036. ELECTRICAL INDICATING INSTRUMENTS:

Generally, ampere, volt, frequency, power factor, and watt meters or other electrical meters that show the instantaneous value of the electrical unit which they measure but which make no record or summation. Electrically operated instruments which show other units are placed in class 7038.

7037. ELECTRICAL RECORDING INSTRUMENTS:

Generally, ampere, volt, frequency, power factor, and watt meters, or other electrical meters which record graphically the instantaneous value of the electrical unit which they measure but which make no summation. Electrically operated instruments which show other units are placed in class 7038.

7038. OTHER ELECTRICAL TESTING APPARATUS:

Armature-testing equipment.
Coil-testing equipment.
Controllers, flat rate.
Current limiters.
Electric speed indicators.
Fault locators.
Foot candle meters.
Glow meters.
Ground detectors.
Harmonic analyzers.
Insulation testing equipment.
Meters, Wheatstone bridge.
Meters, other testing.
Oscillographs.
Overload relays.
Photometers.
Portable testing outfits.
Potentiometers.
Regulators, electric temperature.
Synchroscopes.
Thermostats.

7039. LIGHTNING ARRESTERS, CHOKE COILS, REACTORS, AND PARTS:

Choke coils.
Discharge resistors.
Electrolytic lightning arresters.
Impulse gaps.
Lightning arresters.
Reactance coils.

ELECTRIC MOTORS

Electric motors, except railway and toy, are classified according to size. All motors exported not attached to machines should be declared in the classes shown below.

7040. MOTORS, ¼ HORSEPOWER AND UNDER:

Alternating-current motors.
Bulb motors.
Dental engines.
Direct-current motors.
Fractional horsepower motors.
Sewing-machine motors.
Universal motors.
Utility motors.

* With or without cabinets.

7041. MOTORS OVER ¼ HORSEPOWER AND UNDER 1 HORSEPOWER:

Alternating-current motors.
Direct-current motors.
Utility motors.

7042. STATIONARY MOTORS, 1 TO 200 HORSEPOWER:

Grinding motors.
Motors, A. C. and D. C.
Synchronous motors.

7043. STATIONARY MOTORS OVER 200 HORSEPOWER:

Motors, A. C. and D. C.
Synchronous motors.

7044. RAILWAY MOTORS.

7045. ELECTRIC LOCOMOTIVES, RAILWAY.

7046. ELECTRIC LOCOMOTIVES, MINING AND INDUSTRIAL:

Battery locomotives.
Trolley-type locomotives.
Third-rail-type locomotives.

7047. STATION AND WAREHOUSE ELECTRIC MOTOR TRUCKS.

7048. STARTING AND CONTROLLING EQUIPMENT FOR INDUSTRIAL MOTORS:

Controllers, motor.
Float switches.
Drum controllers.
Drum reverse switches.
Drum-type switches.
Motor starters.
Push-button control equipment.
Remote-control equipment.
Resistors.
Rheostats.

7049. STARTING AND CONTROLLING EQUIPMENT FOR ELECTRIC RAILWAY AND VEHICLE MOTORS:

Automatic-control equipment.
Drum controllers.
Multiple-unit controls.
Railway controllers.

7050. PORTABLE ELECTRIC-TOOLS:

Chalk cutters.
Drills, electric.
Grinders, electric.
Hammers, electric.
Planers, electric.
Reamers, electric.
Riveters, electric.
Saws, electric.
Screw drivers, electric.
Tampers, electric.
Woodworking tools, electric.

7055. ACCESSORIES AND PARTS FOR MOTORS:

Armatures for motors.
Armature coils for motors.
Bearings for motors.
Field coils for motors.
Renewal parts for motors.
Repair parts for motors.
Spare parts for motors.

7057. ELECTRIC HOUSEHOLD REFRIGERATORS.*

7058. ELECTRIC COMMERCIAL REFRIGERATORS,* UP TO 1 TON.

7059. PARTS FOR ELECTRIC REFRIGERATORS.

7060. FLASH-LIGHT CASES:
Cases, flash-light.
Flash lights.

7061. ELECTRIC FANS:

Radio panels.
Ceiling fans.
Desk fans.
Exhaust fans up to 16 inches in diameter.
Fans.
Gyrating fans.

7062. **ELECTROMECHANICAL HEALTH EXERCISERS:**
Electric health motors.
Electric exercisers.
7063. **ELECTRIC INCANDESCENT (METAL-FILAMENT) LIGHT BULBS FOR AUTOMOBILES, FLASH LIGHTS, AND CHRISTMAS TREES.**
7064. **OTHER INCANDESCENT METAL-FILAMENT BULBS.**
7065. **OTHER ELECTRIC LAMP BULBS:**
Carbon filament lamps.
7066. **SEARCHLIGHT AND AIRPORT BEACONS:**
Searchlights.
Airport beacons.
7067. **FLOODLIGHTS:**
Floodlights.
Projectors.
7068. **ELECTRIC HOUSEHOLD WASHING MACHINES.**
7069. **ELECTRIC DOMESTIC VACUUM CLEANERS:**
Electric household vacuum cleaners.
7070. **OTHER DOMESTIC MOTOR-DRIVEN DEVICES, EXCEPT TOOLS:**
Dishwashers.
Electrically-driven ironing machines.
Electric hair dryers.
Mixers, drink.
Vibrators, massage, electric.
7071. **ELECTRIC FLATIRONS:**
Household irons.
Laundry irons.
Sailors' irons.
Travelers' irons.
7072. **ELECTRIC COOKING RANGES:**
Domestic bake ovens.
Domestic ranges.
Fireless cookers.
Ovens, domestic.
For hotel types see class 7074.
7073. **OTHER DOMESTIC HEATING AND COOKING DEVICES:**
Air heaters.
Automobile engine heaters.
Broilers.
Chafing dishes.
Cigar lighters.
Coffee percolators.
Coffee-urn heaters.
Corn poppers.
Curling irons.
Disk immersion water heaters.
Disk stoves.
Frying kettles.
Griddles.
Grids.
Heaters, coffee-urn.
Heaters, disk immersion.
Hot plates.
Immersion heaters, disk.
Luminous radiators.
Mantel luminous radiators.
Pads, warming.
Percolators, coffee.
Radiators, electric.
Reflector heaters.
Toasterettes.
Toasters, domestic.
Urns, coffee, electric.
Waffle irons.
Water heaters.
Water heaters, faucet type.
7074. **INDUSTRIAL ELECTRIC FURNACES, OVENS, AND OTHER HEATING DEVICES:**
Automatic current regulators for electric furnaces.
Babbitt pots.
Bake ovens, except domestic.
Bayonet immersion water heaters.
7074. **INDUSTRIAL ELECTRIC FURNACES, OVENS, AND OTHER HEATING DEVICES—Contd.**
Cartridge-type heaters.
Chocolate warmers.
Clothes dryers.
Crucible furnaces.
Current regulators for arc furnaces.
Dry-type glue pots.
Drying ovens.
Electric furnaces.
Electric ovens.
Foot warmers.
Furnaces, electric.
Glue pots.
Heaters, oven type.
Heaters, space.
Heaters, steel-clad.
Hot tables.
Hotel ranges.
Hotel toasters and other appliances.
Metal pattern plate heaters.
Muffle furnaces, electric.
Oven heaters.
Ovens, not domestic.
Solder pots.
Space heaters.
Steel-clad heaters.
Tables, hot.
Tube furnaces, electric.
Vulcanizers, electric.
7075. **THERAPEUTIC AND X-RAY APPARATUS:**
Health lamps.
Induction coils, vibrating.
Sun-ray lamps.
X-ray machines and tubes.
Galvanic and faradic batteries.
7076. **RADIO TRANSMITTING SETS, TUNES, AND PARTS:**
Broadcasting apparatus.
Microphones.
Radio-telephone sending apparatus.
Sending sets.
Transmitting sets.
Wireless-telephone transmitting apparatus.
Transmitting tubes.
7077. **RADIO RECEIVING SETS:**
Amplifier units.
Radio-phonograph combinations.
Receiving sets, complete.
Short-wave units.
7078. **RADIO RECEIVING TUBES:**
Amplifying tubes.
Detector tubes.
Modulating tubes.
Rectifying tubes.
7079. **RADIO RECEIVING-SET COMPONENTS:**
Battery switches.
Binding posts.
Coil mountings.
Condensers.
Radio crystals and mountings.
Dials.
Grid-leaks.
Radio jacks.
Radio kits.
Knockdown sets.
Radio potentiometers.
Rheostats.
Radio resistance units.
Sockets.
Socket adapters.
Radio terminals.
Television components.
Transformers.
Tuning coils.
Variocouplers.
Vardometers.
Other radio-set components.
7080. **RADIO LOUD-SPEAKERS:**
Loud-speakers.
Loud-speaker units.

7081. **OTHER RADIO RECEIVING-SET ACCESSORIES:**
Aerial lead-ins.
Battery eliminators.
Electric pick-ups.
Ground clamps.
Radio lead sets.
Radio lightning arresters.
Loop aerials.
Radio plugs.
Radio-tube reactivers.
Television accessories.
Wave traps.
Other radio receiving-set accessories.
7082. **TELEGRAPH APPARATUS:**
Instruments, telegraph.
Repeaters, telegraph.
Telegraph equipment, except radio.
7083. **TELEPHONE INSTRUMENTS:**
Telephones, automatic.
Telephones, C. B.
Telephones, magneto.
7086. **TELEPHONE SWITCHBOARDS:**
Switchboards, telephone, magneto.
Switchboards, telephone, C. B., manual.
Switchboards, telephone, C. B., mechanical.
Switchboards, telephone, C. B., semi-mechanical.
Switchboards, telephone, P. B. X.-C. B., manual.
Switchboards, telephone, P. B. X.-C. B., mechanical.
Switchboards, telephone, testing.
7087. **OTHER TELEPHONE EQUIPMENT:**
Arms, transmitter.
Brackets, telephone.
Coils, loading.
Coils, repeating.
Condensers, telephone.
Cords, receiver switchboard.
Desk stands.
Distributing boxes, protected.
Distributing boxes, unprotected.
Generators, hand.
Generators, ringing.
Heat coils.
Induction coils, telephone.
Jacks, telephone.
Lamp caps.
Magneto, telephone.
Meters, message register.
Mouthpieces, telephone.
Plugs, telephone.
Pole changers.
Pot heads, telephone cable.
Protectors, telephone.
Projectors, mountings for.
Receivers, telephone.
Repeaters, telephone.
Ringers, telephone.
Transmitters.
7089. **BELLS, BUZZERS, ANNUNCIATORS, AND ALARMS:**
Alarms, burglar and fire.
Alarms, tank.
Annunciators.
Bells, electric.
Bell-ringing transformers.
Burglar alarms.
Buzzers, electric.
Calls, carriage.
Carriage calls.
Horns, electric (not automobile).
Hospital signal equipment, electric.
Push buttons.
Signals, factory and office.
7092. **STARTING, LIGHTING, AND IGNITION EQUIPMENT (EXCEPT SPARK PLUGS):**
Auto generators.
Auto starting equipment.
Blasting sets, electric.
Magneto.
7093. **INSULATING MATERIAL:**
Cloth and papers, treated.
Cloth and papers, untreated.
Insulating compounds.
Paper, insulating.
Paints and varnishes, insulating.
Sleeving, fabric.
Sleeving, paper.
Splicing compound.
Tubes, other than porcelain.
Varnishes, insulating.
See also classes 2084 and 5512.
7094. **METAL CONDUIT, OUTLET, AND SWITCH BOXES:**
Conduit bushings.
Conduit, interior, metal.
Cut-out boxes.
Fittings, conduit.
Floor boxes.
Fuse boxes.
Line-junction boxes.
Molding, metal.
Motor-connection boxes.
Service boxes.
Switch boxes.
Switch cabinets.
Train-line junction boxes.
7095. **SOCKETS, OUTLETS, FUSE BLOCKS, AND LIGHTING SWITCHES:**
Bayonet sockets.
Canopy switches.
Fuse blocks.
Fuse holders.
Lamp sockets.
Outlets.
Plugs and receptacles, attachment.
Push-button switches.
Receptacles.
Rosettes.
Socket reducers.
Sockets.
Switches, knife, 10 amperes and less.
Switches, snap, toggle, and tumbler.
7096. **ELECTRIC INTERIOR-LIGHTING FIXTURES:**
Ceiling suspensions.
Commercial lighting fixtures.
Home lighting fixtures.
Industrial lighting fixtures.
Lamp shades, metal.
Portable lamps.
Reflectors.
Table lamps.
See also class 5261.
7097. **ELECTRIC EXTERIOR-LIGHTING FIXTURES:**
Adjusters, socket street hood.
Arrow lighting fixtures except flood lights and beacons.
Automatic cut-out hangers and reflectors.
Crooks, lighting.
Goosenecks.
Lamp brackets.
Lighting fixtures, street.
Multiple street-hood bodies.
Push electric lighting.
Series street-hood bodies.
Street hoods.
Traffic signal lights.
7098. **OTHER WIRING SUPPLIES AND LINE MATERIAL:**
Adjusters, cord and lamp.
Anchor clamps.
Anchor eyes.
Anchor hangers.
Anchor rods.
Approaches for trolley frogs.
Braces, cross-arm.
Brackets, bus-bar.
Bus-bar brackets.
Bus-bar clamps.
Bus-bar supports.
Bus-bar terminals.
Cable anchors.
Catenary hangers.
Charging plugs.

7068. OTHER WIRING SUPPLIES AND LINE MATERIAL—Continued.

Charging receptacles.
Chucks, trolley wire.
Clamp pins.
Clamping bars.
Clamps, cable.
Clamps, ground.
Connector lugs.
Connectors.
Copper terminals.
Copper-tube connectors.
Ears, trolley.
Emergency splicing sleeves.
Feeder clamps.
Feeder ears.
Feeder suspensions.
Flexible approaches.
Frogs, trolley.
Half-strain ears.
Hanger clamps.
Hangers, cable.
Insulator pins.
Insulators, composition.
Insulators, strain (composition).
Insulators, strain (wooden).
Pins, insulator.
Solderless connectors.
Splices.
Splicing ears.
Splicing sleeves.
Strain ears.
Train-line receptacles.
Trolley brackets.
Trolley ears.
Trolley frogs.
Trolley protecting armor.
Trolley-wire chuck.
Trolley-wire splicers.

7069. OTHER ELECTRICAL APPARATUS, N. E. S.¹

Coils, trip.
Condensers, static.
Conduit, interior, nonmetallic.
Conduit, underground, fiber.
Control pedestals.
Control switches (switchboard).
Electric chimes.
Flashers, sign.
Hair clippers, electric.
Letters, sign.
Magnet chargers.
Magnets, lifting.
Magnets, permanent.
Neon signs.
Oil-testing cups.
Photo-electric cells.
Photo flash lamps.
Pushheads, power cable.
Scorching pens.
Signs, electric.
Solenoids.
Wind-driven electric plants.

INDUSTRIAL MACHINERY

7113. MECHANICAL-DRIVE TURBINES:
Steam turbines.

¹ Generally speaking, all repair parts, renewals, or spares, excepting those for generators, motors, electric refrigerators, radio, or telephone, go into this class. (See classes 7009, 7055, 7059, 7079, and 7087.)

7135. CONDENSERS, HEATERS, AND ACCESSORIES:
All types of steam condensers—barometric ejector, jet, and surface.

7163. WATER WHEELS, WATER TURBINES, AND PORTS.

7245. ELEVATORS, FREIGHT AND PASSENGER.

7368. SELF-CONTAINED HOUSEHOLD WATER SYSTEMS.

7552. REFRIGERATING EQUIPMENT NOT OVER 1 TON CAPACITY.

7553. REFRIGERATING EQUIPMENT OVER 1 TON AND NOT OVER 10 TONS REFRIGERATING CAPACITY.

7710. MEAT AND OTHER GRINDING AND SLICING POWER-DRIVEN MACHINERY.

7720. PAINT-SPRAYING EQUIPMENT.

7777. POWER-DRIVEN MACHINES FOR COMMERCIAL LAUNDRIES.

7921. SPARK PLUGS.

7961. ELECTRIC RAILWAY PASSENGER CARS.

7970. RAILWAY SIGNALS AND ATTACHMENTS.

PHOTOGRAPHIC AND PROJECTION GOODS

9009. MOTION-PICTURE SOUND EQUIPMENT.

9111. PROJECTION ARC LAMPS.

TOYS, ATHLETIC AND SPORTING GOODS

9419. OTHER TOYS, EXCEPT RUBBER:
Toys, electric.

CLOCKS AND WATCHES

9570. ELECTRIC CLOCKS:

Electric clocks of all kinds, including battery clocks, synchronous clocks, electrically wound clocks.

MISCELLANEOUS, N. E. S.

9616. SYNTHETIC RESIN SHEETS, PLATES, AND MANUFACTURES.

9620. PYROXYLIN PRODUCTS, KNOWN AS CELLULOID, PYRALIN, VISCOLOID, FIBERLOID, ETC.
Sheets, rods, or tubes.9821. PYROXYLIN PRODUCTS, KNOWN AS CELLULOID, PYRALIN, VISCOLOID, FIBERLOID, ETC.:
Manufactures.9845. REFRIGERATORS, EXCEPT ELECTRIC:
Cabinets, separate.

MSH # 24493

**END OF
TITLE**